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PROGRESS REPORT #2

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TITLE: "To Develop a Land Use-Peak Runoff Classification System for Highway
Engineering Purposes"

BY: Ernest G. Stoeckeler, Principal Investigator

E72-10088
CR-128137

Problems

1. No ERTS-1 imagery of Maine has been received to date.

Accomplishments

1. U-2 preflight photos taken 27 April 1972 were received. Most of the frames had at least 0.6 to 0.7 cloud and shadow cover, leaving only limited holes for analysis. A preliminary study on land use patterns was made.

2. A U-2 underflight on 20 August 1972 covering about 500 linear nautical miles was made. According to the pilot, RBV and CIR imagery was obtained and at least 25% of the coverage was cloud free. As of this date the imagery has not been transmitted to this office. On 15 and 16 August a commercial firm obtained color and color infrared 70 mm photos at a scale of 1:80,000 along twelve 15-mile long strips located in the U-2 corridor.

3. A third U-2 underflight on 20 September 1972 covered the same corridor flown in August. During the flight the skies were cloud-free over the entire state. Simultaneously a commercial flight was chartered to take 70 mm CIR photos at a scale of approximately 1:100,000 along 150 linear miles of select lines along the corridor. On the same day the writer also obtained color and color infrared 35 mm obliques and near verticals at scales of 1:30,000 and 1:60,000 over several select study sites. ERTS-1 orbit C passes over the western part of the state on this date also.

(E72-10088) TO DEVELOP A LAND USE-PEAK
RUNOFF CLASSIFICATION SYSTEM FOR HIGHWAY
ENGINEERING PURPOSES Progress E.G.

N72-32341

Stoeckeler (Maine Dept. of Transportation,
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Planned for Next Period

1. Considerable time will be spent analyzing photography and imagery obtained on the photo missions and the 20 September ERTS-1 orbit described in Items 2 and 3 above.

